

8E5 [derivative of CEM]

CRL-3617™

Cell line 8E5 [derivative of CEM] is a human-derived cell line that can be used in HIV research and immunological applications. This product is an ATCC manufactured and accessioned progeny of ATCC CRL-8993 cited in US Pat. No. 4,752,565.

93/100
Bioz Stars

[8 Product Citations](#)

Product category	Human cells
Organism	<i>Homo sapiens</i> , human
Cell type	lymphoblast
Morphology	lymphoblast
Tissue	Peripheral blood
Disease	Acute lymphoblastic leukemia ALL
Applications	Immune system disorder research Immunology Infectious disease research Sexually transmitted disease research
Product format	Frozen
Storage conditions	Vapor phase of liquid nitrogen

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Documentation

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BSL 2

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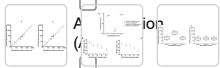
Powell DM, et al. Cell line producing AIDS viral antigens without producing infectious virus particles. US Patent 4,752,565 dated Jun 21 1988

Hay, R. J., Caputo, J. L., and Macy, M. L., Eds. (1992), ATCC Quality Control Methods for Cell Lines. 2nd edition, Published by ATCC.

Caputo, J. L., Biosafety procedures in cell culture. J. Tissue Culture Methods 11:223-227, 1988.

Fleming, D.O., Richardson, J. H., Tulis, J.J. and Vesley, D., (1995) Laboratory Safety: Principles and Practice. Second edition, ASM press, Washington, DC.

- Search for Techniques
-
- Cell Culture
(CELL-CTR)
☐
- Plasmid Preparation
(PLASMID-P)
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- Polymerase Chain Reaction
(PCR)
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- Purification
(PURI)
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- Real-time Polymerase Chain Reaction
(qPCR)



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- Concentration Assay (CO-A)

Low unspliced cell-associated HIV RNA in early treated adolescents living with HIV on long suppressive ART.

Kathleen Gao (NET), Sara Domínguez-Rodríguez, ..., Eleni Nastouli

Frontiers in Immunology | 2024 Mar 07 | 38444847 | Read Article

1. Figure 1A [23]), using the QuantiTect Multiplex PCR Master Mix (Qiagen, Cat-No 204543, with ROX dye) and an HIV standard (8E5 cell extract with known copy numbers

- Extraction (EXT)

Accuracy of real-time PCR and digital PCR for the monitoring of total HIV DNA under prolonged antiretroviral therapy.

Constance • Flow Cytometry, Reine Bolloré, ..., Edouard Tuillon

Scientific reports | 2022 Jun 04 | 35665775 | [Read Article](#)

.. cells from PBMC cell line contain one copy of mutated HIV DNA per cell44.. The laboratory's **8E5 cell line (8E5A)(ATCC CRL-8993TM)** was thawed and cultured in RPMI 1640 (GIBCO) containing 100 8E5 cells and 106 PBMC and negative samples containing .. [More...](#) | [Share Article](#)

- Incubation (INCU)

Instability of 8E5 calibration standard revealed by digital PCR risks inaccurate quantification of HIV DNA in clinical samples by qPCR

Eloise Bustamante, Alexandra S. Whale, ..., Jeremy A. Garson

Scientific Reports | 2017 Apr 26 | 28446770 | Read Article

Article Snippet

... Institute of Standards and designated Standard 1, Standard 2 and Standard 3.. Standard 1 had been used for clinical research on HIV DNA levels; Standard 2 had been used in research as a source of HIV RNA; Standard 3 was a freshly obtained **8E5 cell culture** from the **American Type Culture Collection** (ATCC® CRL-8993™) distributed by LGC, Teddington, UK.. The passage numbers of the 8E5 cells from which Standard ... [More...](#)

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Figure Legend

"... quantities calculated assuming one HIV DNA copy per **8E5** cell. (b) qPCR quantities calculated assuming ..." [More...](#)

Instability of 8E5 calibration standard revealed by digital PCR risks inaccurate quantification of HIV DNA in clinical samples by qPCR

Eloise Busby, Alexandra S. Whale, ..., Jeremy A. Garson

Scientific Reports | 2017 Apr 26 | 28446770 | Read Article

Article Snippet

... Institutions and designated Standard 1, Standard 2 and Standard 3.. Standard 1 had been used for clinical research on HIV DNA levels; Standard 2 had been used in research as a source of HIV RNA; Standard 3 was a freshly obtained **855 cell culture** from the **American Type Culture Collection** (ATCC® CRL-8993™) distributed by LGC, Teddington, UK.. The passage numbers of the 855 cells from which Standard ... [More...](#)

Figure Legend

"HIV DNA copies per cell calculated for different 8E5 sources. (a) Comparison of 8E5 Standards ..." [More...](#)

Instability of 8E5 calibration standard revealed by digital PCR risks inaccurate quantification of HIV DNA in clinical samples by qPCR

Eloise Busby, Alexandra S. Whale, Jeremy A. Garson

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Figure Legend

"... clinical samples assayed in duplicate by qPCR using **8E5** Standards 1, 2 and 3 for calibration. (..."[More...](#)

The Molecular Characterization of Intestinal Explant HIV Infection Using Polymerase Chain Reaction-Based Techniques

Laura Janocko, Andrew D. Althouse, ..., Ian McGowan

AIDS Research and Human Retroviruses | 2015 Oct 01 | 26214703 | [Read Article](#)

".. constructed by amplifying gene fragments using the appropriate primers and AmpliTaq Gold DNA polymerase.. For DNA assays, the PCR fragments were generated by a **Culture Collection**, Manassa, VA).. RNA from the 8E5 cell line, which constitutively expresses HIV-1 RNA, 39 was also .."[More...](#) | [Share Article](#)

[Patent](#) | Purkinje cell-tropic viral vector

Hirokazu Hirai, Takashi Torashima

us08912315 | 2014 Dec 16 | [Read Patent](#)

".. the infection, 5.0×106 cells were harvested.3 days after the infection, 5.0×106 cells were harvested.. In parallel with this, the equivalent number of **LAV-8E5 cells (ATCC)** per cell, .."[More...](#) | [Share Patent](#)

A robust electrical microcytometer with 3-dimensional hydrofocusing

Nicholas Watkins, Bala Murali Venkatesan, ..., Rashid Bashir

Lab on a chip | 2014 Aug 25 | 19865723 | [Read Article](#)

".. provide cell counts that are comparable to the industry standard method of flow cytometry.. In this study, we compared our device to the Becton Dickinson LSR II Flow Cytometer, a human lymphoblastic cell line from **ATCC** (Manassas, VA).. Cells were cultured two to three times a week in RPMI-1640 media (ATCC) with .."[More...](#) | [Share Article](#)

Analysis of viral and cellular proteins in HIV-1 reverse transcription complexes by co-immunoprecipitation

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